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Published on SBIR.gov (<https://www.sbir.gov>)

1. [9.01: Advanced Manufacturing](#)

Release Date: 03-09-2015 Open Date: 03-09-2015 Due Date: 05-15-2015 Close Date: 05-15-2015

Advanced Manufacturing is “a family of activities that (a) depend on the use and coordination of information, automation, computation, software, sensing, and networking, and/or (b) make use of cutting edge materials and emerging capabilities enabled by the physical and biological sciences, for example nanotechnology, chemistry, and biology. This involves both new ways to manufacture existing pro ...

SBIR National Institute of Standards and Technology Department of Commerce

2. [9.02: Climate Change and Clean Energy](#)

Release Date: 03-09-2015 Open Date: 03-09-2015 Due Date: 05-15-2015 Close Date: 05-15-2015

Implementation of renewable energy and climate change related policies around the globe will require access to accurate, internationally recognized measurements and standards. These will be critical for both policy-making purposes as well as evaluating the impact of mitigation efforts. Such capabilities will be equally important for assessing the impact of energy and climate change policies on t ...

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3. [9.03: Cybersecurity](#)

Release Date: 03-09-2015 Open Date: 03-09-2015 Due Date: 05-15-2015 Close Date: 05-15-2015

Recognizing that the national and economic security of the United States depends on the reliable functioning of critical infrastructure, the President issued Executive Order 13636, Improving Critical Infrastructure Cybersecurity, in February 2013. It directed NIST to work with stakeholders to develop a voluntary framework – based on existing standards, guidelines, and practices - for reducing cy ...

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4. [9.04: Health Care and Bioscience](#)

Release Date: 03-09-2015 Open Date: 03-09-2015 Due Date: 05-15-2015 Close Date: 05-15-2015

New medical diagnostic tests, improving the quality and cost-effectiveness of health care electronic records, reference materials for laboratory test methods, faster screening of promising vaccines, these are a few of the many areas where National Institute of Standards and Technology (NIST) research serves the needs of the bioscience and health care community. NIST collaborates extensively with o ...

SBIR National Institute of Standards and Technology Department of Commerce

5. [9.05: Technology Transfer](#)

Release Date: 03-09-2015 Open Date: 03-09-2015 Due Date: 05-15-2015 Close Date: 05-15-2015

This is the main research area, please review subtopics for a better description of available funding topics.

SBIR National Institute of Standards and Technology Department of Commerce

6. [OSD14.1-AU1: Biometrics for Human-machine Team Feedback in Autonomous Systems](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

This topic is supported under National Robotics Initiatives (NRI). OBJECTIVE: Develop and use biometrics that provides feedback about the status of human-machine team in autonomous systems. DESCRIPTION: Intense workload and short deadlines place a great deal of stress on warfighters applying computer systems to complete their mission. Biometric techniques show promise for detecting variatio ...

SBIR Department of Defense Office of the Secretary of Defense

7. [OSD14.1-AU2: Evaluating the Performance and Progress of Learning-enabled Systems](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

This topic is supported under National Robotics Initiatives (NRI). OBJECTIVE: Develop methodology to evaluate and measure the performance and progress for learning enabled systems. DESCRIPTION: A long term goal of machine learning is to develop systems that learn complex behaviors with minimal human oversight. However, future systems that incorporate learning strategies will not necessarily ...

SBIR Department of Defense Office of the Secretary of Defense

8. [OSD14.1-AU3: Evaluating Mixed Human/Robot Team Performance](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

This topic is supported under National Robotics Initiatives (NRI). OBJECTIVE: Develop methodology to evaluate mixed human/robot team performance DESCRIPTION: Introducing robotic assets to a military or civilian unit should increase the level of performance for the team. We evaluate human teams by scoring their performance on specific tasks; they can be a single score for the team, or an aggr ...

SBIR Department of Defense Office of the Secretary of Defense

9. [OSD14.1-AU4: Safety Testing for Autonomous Systems in Simulation](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date:

01-22-2014

This topic is supported under National Robotics Initiatives (NRI). OBJECTIVE: The Army is interested in adding autonomy to its vehicle convoys [1], but how can we certify that these autonomous algorithms are safe? Currently, live testing of full vehicle systems is the only acceptable method, but even after hundreds of hours of successful live testing, a single hidden failure point in the algor ...

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10. [OSD14.1-AU5: Distributed Visual Surveillance for Unmanned Ground Vehicles](#)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

This topic is supported under National Robotics Initiatives (NRI). OBJECTIVE: Develop a system to identify, classify, and analyze visual data from unmanned ground vehicles and stationary visual surveillance sources to enable real-time on-board decisions and system-wide planning regarding route, speed, and tasks. DESCRIPTION: Distributed visual surveillance has a major role in the future of ...

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